

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An apparatus for the loading and launching of pellets used in tube cleaning comprising:
 - a block having a cylindrical vertical passageway therethrough;
 - a horizontal passageway along the center axis of said block and intersecting said vertical passageway at a right angle;
 - a valve port located along the vertical axis of the vertical passageway and below the horizontal passageway of said block;
 - a valve attached to said valve port for delivering compressed air on demand;
 - a pneumatic actuator within said horizontal passageway;
 - a cylindrical shuttle attached to said actuator and having the ability to freely move along said horizontal shuttle to a retracted and extended position;
 - a pin attached perpendicular to the opposite end of said shuttle;
 - a lower block attached to said block by bolts having a cylindrical vertical passageway therethrough which aligns with the vertical passageway of said block
 - a lower fitting attached to vertical passageway of the lower block;
 - a spring loaded release lever affixed to said block having a pin which extends through slots located on opposite sides of said block;
 - an axle affixing said spring loaded release lever to said block and
 - said release lever straddling the block and having a projection that extends through a hole intersecting the vertical passageway of the block.

2. A device for automatically loading and firing foam pellets as recited in claim 1 wherein said cylindrical shuttle further comprising:

a hole at the opposite end of said shuttle that is larger than and in align with the vertical passageway of the block when said shuttle is extended;

a pin attached perpendicular to and on the opposite end of said shuttle that extends through horizontal slots of the block; and

an air threshold sensor attached to the end of said shuttle to open the piloted valve when the shuttle is fully forward.

3. A device for automatically loading and firing foam pellets as recited in claim 1 wherein said pneumatic actuator includes a means for retracting and extending said cylindrical shuttle in the horizontal passageway of said block and means to contact said release lever.

4. A device for automatically loading and firing foam pellets as recited in claim 1 wherein said spring loaded release lever includes a means for releasing and restricting the movement of foam pellets in said block.

5. A device for loading and firing foam pellet as recited in claim 4 wherein said spring loaded release lever further comprising:

a pin which projects through a small hole intersecting the vertical passageway of said block;

said pin forcibly contacts the foam pellets in the vertical passageway of said block.